

BPA Change Sheet
Calleguas Creek Nitrogen TMDL
October 24, 2002

Document	Page No.	Description of Change and Justification																																								
Numeric Target	10-105	<p>This section was revised to clarify that the numeric targets are expressed as concentrations that are based on the water quality objectives and the margin of safety:</p> <p>“The numeric targets for ammonia (chronic) range from 1.7 mg/L to 3.5 mg/L and from 3.2 mg/L and 9.5 mg/L (acute) depending on location. Numeric targets to address narrative objectives required to protect warm freshwater and wildlife habitat are believed to be sufficient to implement the narrative objectives and may be revised based on the results of monitoring and studies conducted pursuant to the implementation plan.”</p>																																								
Waste Load Allocations (for point sources)	10-106	<p>Revised waste load allocations to clarify that they are expressed as concentrations and reflect calculation of ammonia WLA in conformance with Regional Board Resolution 02-011:.</p> <p>The Basin Plan Amendment clearly identifies the TMDLs and all load and wasteload allocations. The numeric target using the entire historical record, proposed waste load allocations (WLAs) are listed as follows:</p> <table><tr><th>POTWs</th><th><u>Ammonia</u> AMEL¹</th><th><u>NO₃-N</u></th><th><u>NO₂-N</u></th><th><u>NO₃-N+NO₂-N</u></th></tr><tr><td></td><td>(mg/L)</td><td>(mg/L)</td><td>(mg/L)</td><td>(mg/L)</td></tr><tr><td>Hill Canyon WWTP</td><td>3.14</td><td>9.0</td><td>0.9</td><td>9.0</td></tr><tr><td>Simi Valley WQCP</td><td>2.35</td><td>9.0</td><td>0.9</td><td>9.0</td></tr><tr><td>Moorpark WWTP</td><td>2.63</td><td>9.0</td><td>0.9</td><td>9.0</td></tr><tr><td>Camarillo WRP</td><td>3.50</td><td>9.0</td><td>0.9</td><td>9.0</td></tr><tr><td>Camrosa WWTP</td><td>2.98</td><td>9.0</td><td>0.9</td><td>9.0</td></tr><tr><td>Olsen Rd. WRP</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></tr></table> <p>The ammonia objective is based on the average monthly effluent limit as calculated in accordance with the Resolution 02-011. It is noted that for compliance purposes, Resolution 02-011 also provides maximum daily effluent limits. Calculation of the maximum daily effluent limit is provided in the Staff Report</p>	POTWs	<u>Ammonia</u> AMEL ¹	<u>NO₃-N</u>	<u>NO₂-N</u>	<u>NO₃-N+NO₂-N</u>		(mg/L)	(mg/L)	(mg/L)	(mg/L)	Hill Canyon WWTP	3.14	9.0	0.9	9.0	Simi Valley WQCP	2.35	9.0	0.9	9.0	Moorpark WWTP	2.63	9.0	0.9	9.0	Camarillo WRP	3.50	9.0	0.9	9.0	Camrosa WWTP	2.98	9.0	0.9	9.0	Olsen Rd. WRP	N/A	N/A	N/A	N/A
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Load Allocation (for non point sources)	10-106	<p>Incorporation of non point source load allocations expressed by concentrations.</p> <p>The source anlaysis indicates that an agricultural discharge is the major non-point source of oxidized nitrogen to Calleguas Creek and its</p>																																								

¹ AMEL: Average monthly effluent limitation

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		<p>tributaries. This source is particularly significant in Revolon Slough and other agricultural drains in the lower Calleguas watershed where there are no point sources of ammonia and oxidized nitrogen. Load allocations for other non-point sources are:</p> <table><tr><td>Nonpoint Source</td><td>Nitrate-N + Nitrite-N (mg/L)</td></tr><tr><td>Agriculture</td><td>9.0</td></tr><tr><td>Other Nonpoint Source</td><td>9.0</td></tr></table>	Nonpoint Source	Nitrate-N + Nitrite-N (mg/L)	Agriculture	9.0	Other Nonpoint Source	9.0																		
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Implementation	10-107	<p>Revised the implementation plan to allow additional time for POTWs to comply with the TMDL waste load allocations. Several of the POTWs in the Calleguas Creek watershed will require additional time to meet the oxidized nitrogen (nitrate, nitrite, and nitrate + nitrite) waste load allocations. To allow time for completion of denitrification facilities which are integral to this TMDL, the amendment to the Basin Plan made by this TMDL allows for higher interim loads that translate as the interim effluent limits as follows for a period of four years from the effective date of the TMDL:</p> <table><tr><th><u>POTWs</u></th><th colspan="2"><u>Interim Limits* for Nitrate-N + Nitrite-N</u></th></tr><tr><td></td><th>Monthly Average</th><th>Daily Maximum</th></tr><tr><td></td><th>(mg/L)</th><th>(mg/L)</th></tr><tr><td>Hill Canyon WWTP</td><td>36.03</td><td>38.32</td></tr><tr><td>Simi Valley WQCP</td><td>31.60</td><td>32.17</td></tr><tr><td>Moorpark WWTP</td><td>31.5</td><td>32.01</td></tr><tr><td>Camarillo WRP</td><td>36.23</td><td>37.75</td></tr><tr><td>Olsen Rd. WRP</td><td>N/A</td><td>N/A</td></tr></table> <p>* The monthly average and daily maximum interim limits are based on the 95th and 99th percentiles of effluent performance data reported in the Calleguas Creek Characterization Study</p>	<u>POTWs</u>	<u>Interim Limits* for Nitrate-N + Nitrite-N</u>			Monthly Average	Daily Maximum		(mg/L)	(mg/L)	Hill Canyon WWTP	36.03	38.32	Simi Valley WQCP	31.60	32.17	Moorpark WWTP	31.5	32.01	Camarillo WRP	36.23	37.75	Olsen Rd. WRP	N/A	N/A
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